

NDS events cannot be fired in this environment. Violating this behaviour would inappropriately identify the true authorship of an event i.e. a user or process should not be allowed to change the directory as if the directory did it. The process should be identified as the source or author of the event or behavior.

5 The present invention may be embodied in other specific forms without departing from its spirit or essential characteristics. The described embodiments are to be considered in all respects only as illustrative and not restrictive. The scope of the invention is, therefore, indicated by the appended claims rather than by the foregoing description. All changes that come within the meaning and range of equivalency of the
10 claims are to be embraced within their scope.

What is claimed is:

- sub-a37
1. In a distributed computer system (DCE) that provides event globalizing of at least one event at one server in said DCE to other servers within said DCE, a method of maintaining a record of specific event activity over said DCE comprising:
- 5 storing a global event repository comprising a list of events and a corresponding list of servers in order to identify which of said servers should receive which events;
- storing a local event registry comprising a list of events and a corresponding list of local event consumers in order to identify which of said local event consumers should receive which events;
- 10 identifying specific events within the list of events to be monitored for a specific purpose;
- monitoring said specific events as they occur over said DCE; and
- notifying a specific local event consumer of the occurrence of said specific events; and
- 15 recording a log of event activity involving only said specific events.
2. A method of observing events as recited in claim 1 further comprising the step of storing filtering criteria that is used to filter specific events that occur so that only notification of events meeting the stored filtering criteria is sent.
- 20 3. A method of observing events as recited in claim 2 wherein said stored filtering criteria specifies at least one event consumer and the filtering criteria associated with the at least one event consumer.
- 25 4. A method of observing events as recited in claim 1 wherein said global event registry is accessible to a plurality of servers so that each of said plurality of servers can access the list of events and the corresponding list of servers stored in said global event registry.

5. A method of observing events as recited in claim 1 wherein said global event registry is distributed across a plurality of servers and wherein said plurality of servers can access said global event registry to retrieve desired information therefrom.

5 6. A method of observing events as recited in claim 1 further comprising the step of registering for an event by placing an entry into at least one of said global event registry or said local event registry, said entry comprising a server and a corresponding event if said entry is placed in said global event registry and said entry comprising a local event consumer and a corresponding event if said entry is placed in
10 said local event registry.

7. A method of observing events as recited in claim 1 further comprising the step of creating a new event type by placing an entry into at least one of said global event registry or said local event registry, said entry comprising a server and a
15 corresponding new event type if said entry is placed in said global event registry and said entry comprising a local event consumer and a corresponding new event type if said entry is placed in said local event registry.

8. A method of observing events as recited in claim 1 wherein the notifying
20 step further comprises notifying a system administrator of the specific event.

9. A method of observing events as recited in claim 1 wherein the recording step comprises recording information regarding the specific events.

25 10. A method of observing events as recited in claim 9 wherein the recorded information is selected from the list comprising: time of occurrence, event source type, setting name, event name, class name, perpetrator, originating server, attribute name, attribute value.

11. In a distributed computer system (DCS) that provides event globalizing of at least one event at one server in said DCS to other servers within said DCS, a method of maintaining a record of specific event activity over said DCS comprising:

storing a global event repository comprising a list of events and a

corresponding list of servers in order to identify which of said servers should receive which events;

storing a local event registry comprising a list of events and a

corresponding list of local event consumers in order to identify which of said local event consumers should receive which events;

identifying specific events within the list of events to be monitored for a specific purpose;

monitoring said specific events as they occur over said DCS;

automatically updating the local event registry based upon authorized changes to a given event or local event consumer;

notifying a specific local event consumer of the occurrence of said specific events; and

recording a log of event activity involving only said specific events.

12. A method of observing events as recited in claim 11 further comprising the step of storing filtering criteria that is used to filter specific events that occur so that only notification of events meeting the stored filtering criteria is sent.

13. A method of observing events as recited in claim 12 wherein said stored filtering criteria specifies at least one event consumer and the filtering criteria associated with the at least one event consumer.

14. A method of observing events as recited in claim 11 wherein said global event registry is accessible to a plurality of servers so that each of said plurality of

servers can access the list of events and the corresponding list of servers stored in said global event registry.

5 15. A method of observing events as recited in claim 11 wherein said global event registry is distributed across a plurality of servers and wherein said plurality of servers can access said global event registry to retrieve desired information therefrom.

10 16. A method of observing events as recited in claim 11 wherein said notifying step further comprises evaluating a set of rules to determine the specific event consumer to notify.

15 17. A method of observing events as recited in claim 11 wherein said notifying step further comprises filtering said specific event to match said specific event to an appropriate event consumer.

18. A method of observing events as recited in claim 11 wherein the notifying step further comprises notifying a system administrator of the specific event.

20 19. A method of observing events as recited in claim 11 wherein the recording step comprises recording information regarding the specific events.

25 20. A method of observing events as recited in claim 19 wherein the recorded information is selected from the list comprising: time of occurrence, event source type, setting name, event name, class name, perpetrator, originating server, attribute name, attribute value.

21. In a distributed computer system (DCS) that provides event globalizing of at least one event at one server in said DCS to other servers within said DCS, a method of maintaining a record of specific event activity over said DCS comprising:

storing a global event repository comprising a list of events and a

corresponding list of servers in order to identify which of said servers should receive which events;

storing a local event registry comprising a list of events and a

corresponding list of local event consumers in order to identify which of said local event consumers should receive which events;

identifying specific events within the list of events to be monitored for a specific purpose;

monitoring said specific events as they occur over said DCS;

automatically updating the local event registry based upon authorized changes to a given event or local event consumer;

notifying a specific local event consumer of the occurrence of said specific events;

revoking a specific event that is not authorized; and

recording a log of event activity involving only said specific events.

22. A method of observing events as recited in claim 21 further comprising the step of storing filtering criteria that is used to filter specific events that occur so that only notification of events meeting the stored filtering criteria is sent.

23. A method of observing events as recited in claim 22 wherein said stored filtering criteria specifies at least one event consumer and the filtering criteria associated with the at least one event consumer.

24. A method of observing events as recited in claim 21 wherein said global event registry is accessible to a plurality of servers so that each of said plurality of servers can access the list of events and the corresponding list of servers stored in said global event registry.

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25. A method of observing events as recited in claim 21 wherein said global event registry is distributed across a plurality of servers and wherein said plurality of servers can access said global event registry to retrieve desired information therefrom.

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26. A method of observing events as recited in claim 21 wherein said notifying step further comprises evaluating a set of rules to determine the specific event consumer to notify and which specific events are unauthorized.

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27. A method of observing events as recited in claim 21 wherein said notifying step further comprises filtering said specific event to match said specific event to an appropriate event consumer.

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28. A method of observing events as recited in claim 21 wherein the notifying step further comprises notifying a system administrator of the unauthorized specific event.

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29. A method of observing events as recited in claim 21 wherein the recording step comprises recording information regarding the specific events.

30. A method of observing events as recited in claim 29 wherein the recorded information is selected from the list comprising: time of occurrence, event source type, setting name, event name, class name, perpetrator, originating server, attribute name, attribute value.

31. A distributed computer environment (DCE) system comprising:
a system directory;
a least one server, coupled to the system directory;
at least one global event services controller, coupled to the system directory, to
5 globalize at least one event at said at least one server to other servers
within said DCE, wherein a local event registry is stored maintained by
the at least one global event services controller, the local event
registry comprising a list of events and a corresponding list of servers
in order to identify which of said servers should receive which events
10 and a list of events and a corresponding list of local event consumers
that identify which of said local event consumers should receive which
local events; and
a data alert controller, coupled to said at least one global event services
controller, to monitor specific events as they occur over the DCE,
15 notify a specific local event consumer of the occurrence of the specific
events, and record a log of event activity involving only said specific
events.

32. The DCE system as recited in claim 31 further comprising at least one
20 filter, associated with each specific local event consumer and coupled to the data alert
controller, to filter specific events using defined filtering criteria so that only notification
of events meeting the stored filtering criteria is sent.

33. The DCE system as recited in claim 32 wherein said stored filtering criteria specifies at least one event consumer and the filtering criteria associated with the at least one event consumer.

5 34. The DCE system as recited in claim 31 wherein said global event registry is accessible to a plurality of servers so that each of said plurality of servers can access the list of events and the corresponding list of servers stored in said global event registry.

10 35. The DCE system as recited in claim 31 wherein said global event registry is distributed across a plurality of servers and wherein said plurality of servers can access said global event registry to retrieve desired information therefrom.

15 36. The DCE system as recited in claim 31 further comprising a rules controller, coupled to the data alert controller to evaluate a set of rules to determine the specific event consumer to notify and which specific events are unauthorized.

20 37. The DCE system as recited in claim 31 further comprising a registration filter, coupled to the data alert controller, to filter said specific event to match said specific event to an appropriate event consumer.

38. The DCE system of claim 31 wherein the data alert controller also notifies a system administrator of the unauthorized specific event.

25 39. The DCE system of claim 31 wherein the log record comprises information regarding the specific events.

40. The DCE system as recited in claim 39 wherein the information is selected from the list comprising: time of occurrence, event source type, setting name, event name, class name, perpetrator, originating server, attribute name, attribute value.

5 41. The DCE system as recited in claim 31 wherein the global event services controller updates the local event registry based upon authorized changes to a given event or local event consumer.

10 42. The DCE system as recited in claim 31 wherein the data event controller revokes a specific event that is not authorized.

15 43. The DCE system as recited in claim 36 wherein each event consumer utilizes the set of rules to determine what action to take.